

CHAIR

BACKGROUND OF THE INVENTION

1. Field of the invention

5 This invention relates to a chair, particularly to one provided with a massage device in the seat and/or the backrest or the footrest for a user to sit and massage the bottom, the back or the feet at the same time.

2. Description of Prior Art

10 Conventional chairs can be classified into many kinds, and most popular ones are:

(1) A first one 1 is shown in Fig. 1, very simple one with a seat made of rattan or bamboo, or a soft material, only for sitting and resting on the backrest, 15 such as a dining chair, a desk chair, etc.

(2) A second one 2 is shown in Fig. 2, like a sofa composed of springs and foam rubber or leather, very comfortable, elegant and luxuriant.

(3) A third one 3 is shown in Fig. 3, also like a 20 massage chair, mostly used in a guest room, further provided with a complicated massage device consisting of a motor and massage rollers for a sitter to receive massaging actions at the same time in sitting. So this chair is quite expensive.

25 SUMMARY OF THE INVENTION

This invention is to offer a chair having a seat, a back or a footrest provided with a simple massage device

for a sitter to sit and perform massage by sitter's own movement at the same time, with low cost in manufacture.

The feature of the invention is a massage device 5 consisting of a frame, and plural units of two rows of massage rollers positioned in the frame. Then the massage device can form a massage surface for a sitter to make massage to the bottom or the back or the feet by moving the body portion to be massaged on the massage 10 surface for elevating blood circulation.

BRIEF DESCRIPTION OF DRAWINGS

This invention will be better understood by referring to the accompanying drawings, wherein:

Figure 1 is a perspective view of a first 15 conventional chair;

Figure 2 is a perspective view of a second conventional chair;

Figure 3 is a perspective view of a third conventional chair;

20 Figure 4 is a perspective view of a chair in the present invention;

Figure 5 is an exploded perspective view of the chair in the present invention;

25 Figure 6 is an exploded perspective view of a massage device in the present invention;

Figure 7 is a side view of a massage roller unit in the present invention;

Figure 8 is a side view of the massage roller unit revolving in the present invention;

Figure 9 is a side cross-sectional view of the massage device positioned in the seat of the chair in the 5 present invention;

Figure 10 is a side cross-sectional view of the massage device positioned in the backrest of the chair in the present invention;

Figure 11 is a side view of a massage device in the 10 seat of the chair in the present invention;

Figure 12 is a side view of the massage device added with a transmitting member in the present invention;

Figure 13 is a side view of the massage device 15 added with the transmitting member under operating condition in the present invention; and,

Figure 14 is a side cross-sectional view of a massage device provided in a footrest in a chaise longue in the present invention.

20 DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

A preferred embodiment of a chair in the present invention, as shown in Figs. 4 and 5, includes a backrest 41, a seat 42, four legs, a massage device 5 provided in the backrest 41 and/or the seat 42. The backrest 41 is 25 provided with a frame chamber 43 for the massage device 5 to be positioned therein, and the seat 42 is provided

with a frame chamber 44 for the massage device 5.

The massage device 5, as shown in Fig. 6, consists of a frame 51 and plural units of two rows of massage rollers 52 respectively formed with a plurality of 5 annular massage projections 520 and a center hole 521, an elongate shaft 53 extending through each row of the massage rollers 52 to form the row of continual massage rollers 52. Then two elongate shafts 53 combined with the two rows of massage rollers 52 are pivotally 10 combined in the frame 51. Thus the massage device 5 may have a single massage surface formed by the single row of massage rollers 52 with the single shaft 53, or a double massage surface formed by the two rows of massage rollers 52 with the two shafts 53.

15 The double massage surfaces, as shown in Figs. 6 and 7, are formed by the two independent shafts 53 with the two rows of the massage rollers 52, with a side connect plate 54 respectively positioned at two ends of the two rows of the massage rollers 52 and two short 20 shafts 55 fitting in a center hole 540 of each side plate 54 for supporting the two rows of the massage rollers 52. The short shafts 55 can be substituted by a screw, a rivet, etc. Further, the side connect plate 54 has a curved-up upper and a curved-up lower edge, and a pivot hole 541 respectively at two sides of the center hole 540 for two 25 ends of the elongate shaft 53 to fit pivotally therein. Further, the short shafts 55 are pivotally connected to

the frame 51, to permit the two rows of the massage rollers 52 rotate with the short shafts 55 as pivots, as shown in Fig. 8. When the bottom or the back of a user rests on the massage device 5 in the backrest or the seat 5 as shown in Figs. 9 and 10, the massage surface of the massage device 5 may give rise to movement caused by rotation of the massage rollers 52 rotated by the movement of user's bottom or back so as to obtain massage function.

10 Next, as shown in Fig. 11, the whole massage surface formed by each row of the massage rollers 52 may be formed as a slow concave with one end sloping down to the center and then sloping up slowly to the other end. Then this surface is more comfortable for 15 sitting thereon so as to receive better massage to a particular spot. Further, as shown in Figs. 12 and 13, a transmitting member 6 may be added to extend around the center shaft 55, driven by a motor. Then the movement of the massage device 5 is automatically done, so the sitter 20 of the chair does not need to move the bottom or the back for massaging.

The massage device 5 in the invention may be applied to a footrest 70 of a chaise longue 7 as shown in Fig. 14, and then a user lying on the chaise longue 7 may 25 make massage on the feet by means of the massage device 5.

The chair in the invention has the following

advantages, compared with the conventional chairs.

1. The chair has a simple structure for both sitting and massaging, with a low cost, profitable for makers and affordable for consumers.

5 2. A user can make massage to any body part as the person needs, not as a conventional massage device massaging a definite location of a body, and the scope of the massage surface of the two rows of massage rollers can be selected as a user wants, not 10 restricted as the conventional ones.

3. The massage device can be provided for massaging the head, the back, the bottom, the feet, etc. enhancing added function of massage to a chair.

While the preferred embodiment of the invention 15 has been described above, it will be recognized and understood that various modifications may be made therein and the appended claims are intended to cover all such modifications that may fall within the spirit and scope of the invention.